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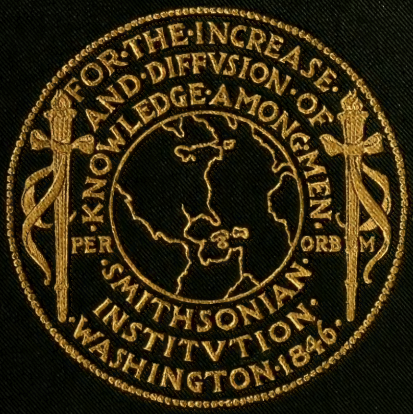

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SMITHSONIAN INSTITUTION.

UNITED STATES NATIONAL MUSEUM.

BULLETIN

OF THE

UNITED STATES NATIONAL MUSEUM.

No. 51.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1902.

ADVERTISEMENT.

This work (Bulletin No. 51) is one of a series of papers intended to illustrate the collections belonging to or placed under the charge of the Smithsonian Institution and deposited in the United States National Museum.

The publications of the National Museum consist of two series—the *Bulletin* and the *Proceedings*.

The *Bulletin*, publication of which was commenced in 1875, is a series of elaborate papers issued separately and based for the most part upon collections in the National Museum. They are monographic in scope and are devoted principally to the discussion of large zoological groups, bibliographies of eminent naturalists, reports of expeditions, etc. The bulletins, issued only as volumes with one exception, are of octavo size, although a quarto form, known as the Special Bulletin, has been adopted in a few instances in which a larger page was deemed indispensable.

The *Proceedings* (octavo), the first volume of which was issued in 1878, are intended primarily as a medium of publication for newly acquired facts in biology, anthropology, and geology, descriptions of new forms of animals and plants, discussions of nomenclature, etc. A volume of about 1,000 pages is issued annually for distribution to libraries, while a limited edition of each paper in the volume is printed and distributed in pamphlet form in advance.

In addition, there are printed each year in the second volume of the Smithsonian Report (known as the Report of the National Museum) papers, chiefly of an ethnological character, describing collections in the National Museum.

Papers intended for publication by the National Museum are usually referred to an advisory committee, composed as follows: Frederick W. True (chairman), William H. Holmes, George P. Merrill, James E. Benedict, Otis T. Mason, Leonhard Stejneger, Lester F. Ward, and Marcus Benjamin (editor).

S. P. Langley,
Secretary of the Smithsonian Institution.

Washington, U. S. A., *April 4, 1902.*

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Birds

A LIST

OF

THE PUBLICATIONS

OF THE

UNITED STATES NATIONAL MUSEUM

(1875-1900)

INCLUDING THE ANNUAL REPORTS, PROCEEDINGS, BULLETINS, SPECIAL BULLETINS, AND CIRCULARS,

WITH INDEX TO TITLES.

BY

RANDOLPH I. GEARE,
Chief, Division of Correspondence and Documents.

SMITHSONIAN
APR 21 1902
LIBRARIES

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1902.

PREFACE.

The purpose of this bulletin is to present a list, with index to titles, of the publications of the U. S. National Museum, which consist of an annual Report, an annual volume of Proceedings, Bulletins, Special Bulletins, and Circulars.

The Report constitutes the second volume of the Smithsonian Report, and the first one thus issued is for the year 1884. A certain number of these volumes is assigned to the Museum for distribution to libraries, to correspondents, and to contributors to the collections, while a considerable part of the edition is distributed by members of Congress. The special papers in these volumes, for the most part describing ethnological collections in the National Museum, are furnished free to those interested.

The series of Proceedings of the National Museum began in 1878, and 23 volumes, containing 1,240 separate papers, have been published. These papers, which are technical, describe, or are based wholly or in part upon, material in the Museum. The volumes are sent only to libraries, while the separate papers are furnished without charge to specialists and others engaged in scientific work.

The first number of the Bulletin was issued in 1875. Of the latest in the series, No. 50 (The Birds of North and Middle America), only the first volume, relating to the Fringillidæ, has been issued. The bulletins are intended principally for libraries, but are also given to known specialists working on the groups to which they relate.

Special Bulletins, in quarto, have been issued at irregular intervals, but this form has been used only where a size larger than octavo was deemed especially desirable. The last one published (No. IV) is the first volume of a monograph of the American Hydroids, and relates to the group Plumularidæ.

The primary object of the issuance of the series of Circulars was to bring to immediate notice urgent wants of the Museum, or to promulgate special information with the least possible delay. The first circular was published in 1881, and at the time when the present list was sent to the Printing Office this series contained fifty numbers.

None of the above-mentioned publications are sold by the Museum, but when the Museum can not supply them, persons desiring to purchase are advised to write to the Superintendent of Documents, Union Building, Washington, D. C.

Occasionally the Museum exchanges its publications for desirable specimens.

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A LIST OF THE PUBLICATIONS OF THE U. S. NATIONAL MUSEUM.

I.—REPORTS.

1881-1900.

510— | Report | of the | Assistant Director | of the | U. S. National Museum, | G. Brown Goode, | for the year 1881. | —— | From the Smithsonian Report for 1881. | —— | Washington: | Government Printing Office. | 1883.

8vo., pp. 1–79.

Report of Assistant Director ..... pp. 1–30.
List of officers ..... p. 31.
Bibliography ..... pp. 31–50.
List of contributors ..... pp. 51–79.

This was the first report on the operations of the National Museum printed under a separate cover. The reports of the Museum for 1881, 1882, and 1883, were first printed in the reports of the Institution for those years, and were afterwards issued in pamphlet form.

The Museum Report for 1884 was the first one to occupy a separate volume of the Smithsonian Report, and to be accompanied by papers based upon the collections.

524— | Report | of the | Assistant Director | of the | U. S. National Museum, | G. Brown Goode, | for the year 1882. | —— | From the Smithsonian Report, 1882. | —— | Washington: | Government Printing Office. | 1883.

8vo., pp. 1–145.

Report of Assistant Director ..... pp. 1–48.
List of officers ..... p. 49.
Bibliography ..... pp. 49–76.
Accessions ..... pp. 77–113.
List of contributors ..... pp. 113–145.

587— | Report | of the | Assistant Director | and of | the Curators | of the | U. S. National Museum | for | the year 1883. | ——— | From the Smithsonian Report for 1883. | ——— | Washington: | Government Printing Office. | 1885.

8vo., pp. 1–200.

Report of the Assistant Director ..... pp. 1–30.
Reports of curators ..... pp. 30–114.
Materia Medica. By J. M. Flint. pp. 30–35.
Foods and Textile Industries. By Romyn Hitchcock. pp. 36–38.
Antiquities. By Charles Rau. pp. 38–47.
Mammals. By Frederick W. True. pp. 48–60.
Birds. By Robert Ridgway. pp. 60–65.

Reptiles. By H. C. Yarrow. pp. 65–68.
Fishes. By Tarleton H. Bean. pp. 68–79.
Insects. By C. V. Riley. pp. 79–84.
Mollusks. By Wm. H. Dall. pp. 84–90.
Marine Invertebrates. By Richard Rathbun. pp. 90–100.
Fossil Invertebrates (Mesozoic and Cenozoic). By C. A. White. pp. 100–101.
Fossil Invertebrates (Paleozoic). By Chas. D. Walcott. pp. 101–103.
Fossil Plants. By Lester F. Ward. p. 103.
Lithology and Physical Geology. By George P. Merrill. pp. 103–106.
Minerals. By F. W. Clarke. pp. 106–108.
Metallurgy and Economic Geology. By Fred P. Dewey. pp. 108–111.
List of officers ..... p. 115.
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Annual Report | of the | Board of Regents | of the | Smithsonian Institution, | showing | the operations, expenditures, and condition | of the Institution | for the year 1884. | ——— | Part II. | ——— | Washington: | Government Printing Office. | 1885.

8vo., pp. ix, 1–458, 105 pls.

Beginning with this year and continuing until 1892, the reports consist of Part I, Report of the Assistant Director [after 1885 this title was changed to Assistant Secretary]; Part II, Reports of the Curators and Acting Curators; Part III, Papers based on collections in the National Museum; Part IV, Bibliography; Part V, List of accessions to the Museum.

Report of Assistant Director ..... pp. 1–72.
Reports of curators ..... pp. 75–276.
Materia Medica. By H. G. Beyer. pp. 75–77.
Textile Industries. By Romyn Hitchcock. pp. 79–84.
Naval Architecture. By Joseph W. Collins. pp. 85–106.
Foods. By Romyn Hitchcock. pp. 107–108.
Ethnology. By Otis T. Mason. pp. 109–120.
American Aboriginal Pottery. By William H. Holmes. pp. 121–122.
Antiquities. By Charles Rau. pp. 123–127.
Mammals. By Frederick W. True. pp. 129–142.
Birds. By Robert Ridgway. pp. 143–155.
Herpetology. By H. C. Yarrow. pp. 157–160.
Fishes. By Tarleton H. Bean. pp. 161–178.
Mollusks. By William H. Dall. pp. 179–184.
Insects. By C. V. Riley. pp. 185–188.
Marine Invertebrates. By Richard Rathbun. pp. 189–202.
Invertebrate Fossils (Paleozoic). By C. D. Walcott. pp. 203–214.
Invertebrate Fossils (Mesozoic and Cenozoic). By C. A. White. pp. 215–217.
Fossil Plants. By Lester F. Ward. pp. 219–220.
Minerals. By F. W. Clarke. pp. 221–225.
Lithology and Physical Geology. By George P. Merrill. pp. 227–238.
Metallurgy and Economic Geology. By Frederick P. Dewey. pp. 239–276.
Papers illustrating the collections ..... pp. 277–335.
Bibliography ..... pp. 337–381.
Accessions ..... pp. 383–428.

Annual Report | of the | Board of Regents | of the | Smithsonian Institution, | showing | the operations, expenditures, and condition | of the Institution | to July, 1885.[1] | ——— | Part II. | ——— | Washington: | Government Printing Office. | 1886.

8vo., pp. xi, 1–264; vii, 1–939, 144 pls.

Report of Assistant Director ..... pp. 1–54.
Reports of curators ..... pp. 55–147.
Materia Medica. By H. G. Beyer. pp. 57–58.
Textile Industries. By Romyn Hitchcock. pp. 59–60.
Foods. By Romyn Hitchcock. p. 61.
Enthnology. By Otis T. Mason. pp. 63–67.
American Prehistoric Pottery. By W. H. Holmes. p. 69.
Antiquities. By Charles Rau. pp. 71–78.
Mammals. By Frederick W. True. pp. 79–84.
Birds. By Robert Ridgway. pp. 85–91.
Reptiles and Batrachians. By H. C. Yarrow. pp. 93–94.
Fishes. By Tarleton H. Bean. pp. 95–98.
Comparative Anatomy. By Frederick W. True. pp. 99–102.
Mollusks. By William Healey Dall. pp. 103–111.
Insects. By C. V. Riley. pp. 113–116.
Marine Invertebrates. By Richard Rathbun. pp. 117–127.
Invertebrate Fossils (Paleozoic). By C. D. Walcott. pp. 129–132.
Invertebrate Fossils (Meso-Cenozoic). By Charles A. White. p. 133.
Plants. By Lester F. Ward. pp. 135–136.
Minerals. By F. W. Clarke. pp. 137–138.
Lithology and Physical Geology. By George P. Merrill. pp. 139–142.
Metallurgy and Economic Geology. By F. P. Dewey. pp. 143–147.
Bibliography ..... pp. 149–174.
List of accessions ..... pp. 175–243.
Paper on the George Catlin Indian Gallery ..... pp. 1–939.

Annual Report | of the | Board of Regents | of the | Smithsonian Institution, | showing | the operations, expenditures, and condition | of the Institution | for the | year ending June 30, 1886, | —— | Part II. | —— | Washington: | Government Printing Office. | 1889.

8vo., pp. xi, 1–842, 16 pls., 23 figs.

Report of Assistant Secretary ..... pp. 1–83.
Reports of curators ..... pp. 85–252.
Ethnology. By Otis T. Mason. pp. 87–96.
American Aboriginal Pottery. By W. H. Holmes. pp. 97–100.
Archæology. By Charles Rau. pp. 101–112; 4 pls., 20 figs.
Foods and Textiles. By Romyn Hitchcock. pp. 113–118.
Steam Transportation. By J. Elfreth Watkins. pp. 119–141; 5 pls., 9 figs.
Materia Medica. By H. G. Beyer. pp. 143–145.
Mammals. By Frederick W. True. pp. 147–152.
Birds. By Robert Ridgway. pp. 153–162.
Birds' Eggs. By Charles Bendire. pp. 163–164.
Reptiles and Batrachians. By H. C. Yarrow. pp. 165–166.
Fishes. By Tarleton H. Bean. pp. 167–172.
Mollusks (including Cenozoic Fossils). By Wm. H. Dall. pp. 173–179.
Insects. By C. V. Riley. pp. 181–197; 1 pl., 5 figs.

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[1] It having been decided to issue future reports by the fiscal year instead of by the calendar year, this volume covers only the first six months of the year 1885.

Marine Invertebrates. By Richard Rathbun. pp. 199–207.
Comparative Anatomy. By Frederick W. True. pp. 209–213.
Invertebrate Fossils. By C. D. Walcott. pp. 215–227.
Invertebrate Fossils (Mesozoic). By C. A. White. pp. 229–230.
Fossil Plants. By Lester F. Ward. p. 231.
Recent Plants. By Lester F. Ward. pp. 233–235.
Minerals. By F. W. Clarke. pp. 237–238.
Lithology and Physical Geology. By George P. Merrill. pp. 239–244.
Metallurgy and Economic Geology. By Fred. P. Dewey. pp. 245–252.
Papers illustrating the collections ..... pp. 253–670.
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Annual Report | of the | Board of Regents | of the | Smithsonian Institution, | showing | the operations, expenditures, and condition | of the Institution | for the | year ending June 30, 1887. | —— | Part II, | ——— | Washington: | Government Printing Office. | 1889.

8vo., pp. xviii, 1–771, 32 pls., 125 figs.

Report of Assistant Secretary ..... pp. 1–62.
Reports of curators ..... pp. 63–558.
Ethnology. By Otis T. Mason. pp. 65–75.
American Aboriginal Pottery. By W. H. Holmes. pp. 77–78.
Transportation. By J. Elfreth Watkins. pp. 79–81; 1 pl., 2 figs.
Archæology. By Charles Rau. pp. 83–85.
Mammals. By Frederick W. True. pp. 87–94.
Birds. By Robert Ridgway. pp. 95–100.
Birds' Eggs. By Charles E. Bendire. pp. 101–102.
Reptiles and Batrachians. By H. C. Yarrow. pp. 103–104.
Fishes. By Tarleton H. Bean. pp. 105–110.
Mollusks (including Cenozoic Invertebrate Fossils). By W. H. Dall. pp. 111–115.
Insects. By C. V. Riley. pp. 117–123.
Marine Invertebrates. By Richard Rathbun. pp. 125–135.
Comparative Anatomy. By Frederick W. True. pp. 137–138.
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Invertebrate Fossils (Mesozoic). By C. A. White. p. 143.
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8vo., pp. xxii, 1–876, 108 pls., 2 charts, 174 figs., 4 diagrams, 1 map.

Report of Assistant Secretary ..... pp. 1–84.

Reports of curators..... pp. 85–222.
Ethnology. By Otis T. Mason. pp. 87–92.
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American Aboriginal Pottery. By W. H. Holmes. pp. 105.
Transportation and Engineering. By J. Elfreth Watkins. pp. 107–111.
Materia Medica. By James M. Flint. pp. 113–114.
Historical Relics, Coins, Medals, etc. By A. Howard Clark. pp. 115–116.
Graphic Arts. By S. R. Koehler. pp. 117–122.
Prehistoric Anthropology. By Thomas Wilson. pp. 123–138.
Mammals. By Frederick W. True. pp. 139–143.
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Minerals. By F. W. Clarke. pp. 195–197.
Lithology and Physical Geology. By George P. Merrill. pp. 199–208.
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Living Animals. By W. T. Hornaday. pp. 213–222.
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Annual Report | of the | Board of Regents | of the | Smithsonian Institution | showing | the operations, expenditures, and condition | of the Institution | for the | year ending June 30, 1889. | —— | Report | of the | National Museum. | —— | Washington: | Government Printing Office. | 1891.

pp. xvii, 1–883, Appendix E, pp. 1–50; 107 pls., 137 figs., 7 maps.

Report of Assistant Secretary ..... pp. 1–277.
Reports of curators..... pp. 279–423.
Ethnology. By Otis T. Mason. pp. 281–288.
Oriental Antiquities. By Cyrus Adler. pp. 289–292.
Transportation and Engineering. By J. Elfreth Watkins. pp. 293–299.
Graphic Arts. By S. R. Koehler. pp. 301–313.
Prehistoric Anthropology. By Thomas Wilson. pp. 317–339; 6 pls.
American Aboriginal Pottery. By W. H. Holmes. p. 341.
Forestry. By B. E. Fernow. pp. 343–347.
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Birds' Eggs. By Charles E. Bendire. pp. 363–364.
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Insects. By C. V. Riley. pp. 377–380.
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Annual Report | of the | Board of Regents | of the | Smithsonian Institution, | showing | the operations, expenditures, and condition | of the Institution | for the | year ending June 30, 1890. | —— | Report | of the | U. S. National Museum. | —— | Washington: | Government Printing Office. | 1891.

pp. xviii, 1–811, 163 pls., 99 figs.

Report of Assistant Secretary ..... pp. 1–116.
Reports of curators..... pp. 117–249.
Ethnology. By Otis T. Mason. pp. 119–136.
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Annual Report | of the | Board of Regents | of the | Smithsonian Institution, | showing | the operations, expenditures, and condition | of the Institution | for the | year ending June 30, 1891. | —— | Report | of the | U. S. National Museum. | —— | Washington: | Government Printing Office. | 1892.

8vo., pp. xvii, 1–869, 84 pls., 151 figs., 3 diagrams.

Report of Assistant Secretary ..... pp. 1–131.

Reports of curators..... pp. 133–270.
Ethnology. By Otis T. Mason. pp. 135–144.
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8vo., pp. xv, 1–620, 103 pls., 5 figs.

Report of Assistant Secretary..... pp. 1–97.
Reports of curators..... pp. 99–217.
Ethnology. By Otis T. Mason. pp. 101–107.
American Aboriginal Pottery. By William H. Holmes. p. 109.
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8vo., pp. xxi, 1–794, 188 pls., 116 figs.

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8vo., pp. xxvi, 1–1030, 57 pls., 851 figs., 1 chart, 1 map.

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This volume constitutes a memorial to Dr. G. Brown Goode.

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pp. 279–289, 17 pls.

R. 2. Basket-work of the North American aborigines. By Otis T. Mason.
pp. 291–306, 64 pls.

R. 3. A study of the Eskimo bows in the U. S. National Museum. By John Murdoch.
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R. 4. On a Spotted dolphin apparently identical with the *Prodelphinus doris* of Gray. By Frederick W. True.
pp. 317–324, 6 pls.

R. 5. The Florida muskrat (*Neofiber alleni* True). By Frederick W. True.
pp. 325–330, 3 pls.

R. 6. On the West Indian seal (*Monachus tropicalis* Gray). By Frederick W. True and F. A. Lucas.
pp. 331–335, 3 pls.

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R. 7. Sketch of the exhibit made by the Smithsonian Institution at the New Orleans Exposition. (Part of the Report of the Assistant Director.)
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R. 8. The George Catlin Indian Gallery in the U. S. National Museum, with memoirs and statistics. By Thomas Donaldson.
pp. vii, 1–939, 144 pls.

1886.

R. 9. Report upon the exhibit made by the Smithsonian Institution at the New Orleans Exposition (including Louisville and Cincinnati). By R. Edward Earll. (Part of the Report of the Assistant Secretary.)
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R. 10. The meteorite collection in the U. S. National Museum: A catalogue of meteorites represented November 1, 1886. By F. W. Clarke.
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R. 11. Gem collection of the U. S. National Museum. By George F. Kunz.
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R. 12. The collection of building and ornamental stones in the U. S. National Museum: A handbook and catalogue. By George P. Merrill.
pp. 277–648, 9 pls., 14 figs.

R. 13. List of specimens of textile fibers and fabrics in the reference series of the section of textile industries of the U. S. National Museum, June 30, 1886. By Romyn Hitchcock.
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R. 14. Preparation of microscopical mounts of vegetable textile fibers. By Romyn Hitchcock.
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R. 15. How to collect mammal skins for purposes of study and for mounting. By William T. Hornaday.
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R. 16. Cradles of the American aborigines. By Otis T. Mason.
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R. 17. Notes on the artificial deformation of children among savages and civilized peoples. By J. H. Porter.
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R. 19. Ethno-conchology: A study of primitive money. By Robert E. C. Stearns.
pp. 297–334, 9 pls., 22 figs.

R. 20. A preliminary catalogue of the Eskimo collection in the U. S. National Museum, arranged geographically and by uses. By T. Dix Bolles.
pp. 335–365.

R. 21. The extermination of the American bison, with a sketch of its discovery and life history. By William T. Hornaday.
pp. 367–548, 22 pls.

R. 22. The preservation of museum specimens from insects and the effect of dampness. By Walter Hough.
pp. 549–558, 4 figs.

1888.

R. 23. Report upon the participation of the Smithsonian Institution in the Industrial Exposition at Minneapolis, 1887. By William V. Cox. (Part of the Report of the Assistant Secretary.)
pp. 82–84.

R. 24. The coast Indians of southern Alaska and northern British Columbia. By Albert P. Niblack, U. S. N.
pp. 225–386, 70 pls., 48 figs., 2 charts.

R. 25. A catalogue of the Hippisley collection of Chinese porcelains; with a sketch of the history of ceramic art in China. By Alfred E. Hippisley.
pp. 387–491.

R. 26. The expedition to Funk Island, with observations upon the history and anatomy of the Great Auk. By Frederic A. Lucas.
pp. 493–529, 3 pls., 4 diagrams.

R. 27. Fire-making apparatus in the U. S. National Museum. By Walter Hough.
pp. 531–587, 6 pls., 49 figs.

R. 28. The collection of Korean mortuary pottery in the U. S. National Museum. By Pierre Louis Jouy.
pp. 589–596, 5 pls., 1 map.

R. 29. A study of prehistoric anthropology: Handbook for beginners. By Thomas Wilson.
pp. 597–671, 20 pls., 43 figs.

R. 30. Ancient Indian matting, from Petit Anse Island, Louisiana. By Thomas Wilson.
pp. 673–675, 1 plate.

R. 31. Results of an inquiry as to the existence of man in North America during the paleolithic period of the Stone Age. By Thomas Wilson.
pp. 677–702, 14 figs.

1889.

R. 32. Museum catalogues. By Randolph I. Geare. (Part of the Report of the Assistant Secretary.)
pp. 8–21.

R. 33. Report upon the participation of the Smithsonian Institution and the National Museum in the expositions held at Cincinnati and Mariettta in 1888. (Part of the Report of the Assistant Secretary.)
pp. 149–186, 4 pls.

This report consists of a letter addressed to the Secretary of the Smithsonian Institution and inclosing Appendix A: Report upon the exhibit of the Smithsonian Institution, including the U. S. National Museum, at the Centennial Exposition of the Ohio Valley and Central States, held at Cincinnati, Ohio, in 1888. By R. Edward Earll. Appendix B: Report upon the exhibit of the Smithsonian Institution, including the U. S. National Museum, at the Centennial Exposition, Marietta, Ohio, July 16 to 21, 1888. By William V. Cox.

R. 34. Biographical notice of James Stevenson (Appendix C). (Part of the Report of the Assistant Secretary.)
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R. 35. Lists of institutions and foreign and domestic libraries to which it is desired to send future publications of the National Museum (Appendix D). (Part of the Report of the Assistant Secretary.)
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R. 36. The museums of the future.[1] By G. Brown Goode.
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R. 37. Te Pito Te Henua, or Easter Island. By W. J. Thomson, U. S. N.
pp. 447–552, 49 pls., 20 figs.

R. 38. Aboriginal skin-dressing: A study based on material in the U. S. National Museum. By Otis T. Mason.
pp. 553–589, 33 pls.

R. 39. The Puma, or American lion: *Felis concolor* of Linnæus. By Frederick W. True.
pp. 591–608, 1 plate.

R. 40. Animals recently extinct or threatened with extermination, as represented in the collections of the U. S. National Museum. By Frederic A. Lucas.
pp. 609–649, 11 pls., 2 figs., 7 maps.

R. 41. The development of the American rail and track, as illustrated by the collection in the U. S. National Museum. By J. Elfreth Watkins.
pp. 651–708, 116 figs.

R. 42. Explorations in Newfoundland and Labrador in 1887, made in connection with the cruise of the U. S. Fish Commission schooner *Grampus*. By Frederic A. Lucas.
pp. 709–728, 1 plate.

R. 43. On a bronze Buddha in the U. S. National Museum. By Charles De Kay.
pp. 729–735, 1 plate.

R. 44. Preliminary handbook of the Department of Geology in the U. S. National Museum. By George P. Merrill. (Appendix E.)
pp. 1–50.

1890.

R. 45. The Humming birds. By Robert Ridgway.
pp. 253–383, 46 pls., 47 figs.

R. 46. White-line engraving or relief-printing in the fifteenth and sixteenth centuries. By S. R. Koehler.
pp. 385–394, 4 pls., 3 figs.

R. 47. The methods of fire-making. By Walter Hough.
pp. 395–409, 1 pl., 13 figs.

R. 48. Ulu, or Woman's knife, of the Eskimo. By Otis T. Mason
pp. 411–416, 21 pls.

R. 49. The ancient Pit-dwellers of Yezo. By Romyn Hitchcock.
pp. 417–427, 8 pls., 4 figs.

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[1] A lecture delivered before the Brooklyn Institute, February 28, 1889.

R. 50. The Ainos of Yezo, Japan. By Romyn Hitchcock.
pp. 429–502, 37 pls., 21 figs.

R. 51. Handbook for the Department of Geology in the U. S. National Museum. Part I. Geognosy. The materials of the earth's crust. By George P. Merrill.
pp. 503–591, 12 pls., 10 figs.

R. 52. The Catlin collection of Indian paintings.[1] By Washington Matthews, U. S. A.
pp. 593–610, 21 pls.

R. 53. The log of the *Savannah*. By J. Elfreth Watkins.
pp. 611–639, 6 pls.

R. 54. Anthropology at the Paris Exposition in 1889. By Thomas Wilson.
pp. 641–680, 7 pls., 1 fig.

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R. 55. The genesis of the National Museum. By G. Brown Goode.
pp. 273–380.

R. 56. Ethnological collections in the U. S. National Museum from Kilima-Njaro, East Africa. By W. L. Abbott.
pp. 381–428, 24 figs.

R. 57. The Bernadou, Allen, and Jouy Korean collections in the U. S. National Museum. By Walter Hough.
pp. 429–488, 31 pls.

R. 58. Shinto, or the mythology of the Japanese. By Romyn Hitchcock.
pp. 489–509.

R. 59. The ancient burial mounds of Japan. By Romyn Hitchcock.
pp. 511–523, 31 pls.

R. 60. Some ancient relics in Japan. By Romyn Hitchcock.
pp. 525–526, 4 pls.

R. 61. Prehistoric naval architecture of the north of Europe. By George H. Boehmer.
pp. 527–647, 17 pls., 126 figs.

R. 62. First draft of a system of classification for the World's Columbian Exposition. By G. Brown Goode.
pp. 649–735.

1892.

R. 63. Japanese wood-cutting and wood-cut printing. By T. Tokuno.
pp. 221–244, 10 pls., 5 figs.

R. 64. The relation of biology to geological investigation. By Charles A. White.
pp. 245–368, 1 plate.

R. 65. Scientific taxidermy for museums. (Based on a study of the United States Government collections.) By R. W. Shufeldt.
pp. 369–436, 84 pls.

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[1] Reprint of a lecture delivered in the National Museum on April 13, 1889.

R. 66. The shofar—its use and origin. By Cyrus Adler.
pp. 437–450, 4 pls.

R. 67. The Crump burial cave. (Blount County, Alabama.) By Frank Burns.
pp. 451–454, 1 plate.

R. 68. Minute stone implements from India. By Thomas Wilson.
pp. 455–460, 2 pls.

R. 69. Comparative oölogy of North American birds. By R. W. Shufeldt.
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R. 70. Recent advances in museum methods. (Part of the Report of the Assistant Secretary.)
pp. 21–58, 55 pls.

R. 71. Columbian Historical Exposition in Madrid. (Part of the Report of the Assistant Secretary.)
pp. 86–108; also Appendix X, pp. 324–334.

R. 72. The World's Columbian Exposition. (Part of the Report of the Assistant Secretary.)
pp. 108–114, 1 plate; also Appendix IX, pp. 316–321.

R. 73. The poisonous snakes of North America. By Leonhard Stejneger.
pp. 345–487, 19 pls., 70 figs.

R. 74. Chinese games with dice and dominoes. By Stewart Culin.
pp. 489–537, 12 pls., 33 figs.

R. 75. The onyx marbles; their origin, composition, and uses, both ancient and modern. By George P. Merrill.
pp. 539–585, 18 pls.

R. 76. The cowbirds. By Charles Bendire.
pp. 587–624, 3 pls.

R. 77. Primitive American armor. By Walter Hough.
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R. 78. The weapons and wings of birds. By Frederic A. Lucas.
pp. 653–663, 1 plate, 8 figs.

R. 79. Notes on the ethnology of Tibet. By William Woodville Rockhill.
pp. 665–747, 52 pls.

R. 80. Two Persepolitan casts in the U. S. National Museum. By Cyrus Adler.
pp. 749–753, 2 pls.

R. 81. Museum collections to illustrate religious history and ceremonials. By Cyrus Adler.
pp. 755–768.

R. 82. If public libraries, why not public museums?[1] By Edward S. Morse.
pp. 769–780.

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[1] Reprinted from The Atlantic Monthly, July, 1893, pp. 112–119.

1894.

R. 83. Primitive travel and transportation. By Otis Tufton Mason.
pp. 237–593, 25 pls., 260 figs.

R. 84. Mancala, the national game of Africa. By Stewart Culin.
pp. 595–607, 5 pls., 15 figs.

R. 85. The golden patera of Rennes. By Thomas Wilson.
pp. 609–617, 1 plate, 1 fig.

R. 86. The wooden statue of Baron Ii Kamon-no-Kami Naosuké, pioneer diplomat of Japan. (Translation by Mr. H. Satoh of the label accompanying the statue.)
pp. 619–622, 1 plate.

R. 87. A study of the primitive methods of drilling. By J. D. McGuire.
pp. 623–756, 201 figs.

R. 88. The swastika, the earliest known symbol, and its migrations; with observations on the migration of certain industries in prehistoric times. By Thomas Wilson.
pp. 757–1011, 25 pls., 374 figs., 1 map, 1 chart.

1895.

R. 89. The social organization and the secret societies of the Kwakiutl Indians. By Franz Boas.
pp. 311–738, 51 pls., 215 figs.

R. 90. The graphic art of the Eskimos. By Walter James offman.
pp. 739–968, 82 pls., 154 figs.

R. 91. Notes on the geology and natural history of the peninsula of Lower California. By George P. Merrill.
pp. 969–994, 10 pls.

R. 92. The mineralogical collections in the U. S. National Museum. By Wirt Tassin.
pp. 995–1000, 1 plate.

R. 93. The tongues of birds. By Frederic A. Lucas.
pp. 1001–1020, 2 pls., 13 figs.

R. 94. The Ontonagon copper bowlder in the U. S. National Museum. By Charles Moore.
pp. 1021–1030, 2 pls.

R. 95. Taxidermical methods in the Leyden Museum, Holland. By R. W. Shufeldt.
pp. 1031–1037, 6 pls.

R. 96. The antiquity of the red race in America. By Thomas Wilson.
pp. 1039–1045.

1896.

R. 97. An account of the U. S National Museum. By Frederick W. True.
pp. 287–324.

R. 98. Prehistoric art; or, the origin of art as manifested in the works of prehistoric man. By Thomas Wilson.
pp. 325–664, 75 pls., 325 figs.

R. 99. Chess and playing cards: catalogue of games and implements for divination exhibited by the United States National Museum in connection with the Department of Archæology and Paleontology of the University of Pennsylvania at the Cotton States and International Exposition, Atlanta, Georgia, 1895. By Stewart Culin.
pp. 665–942, 50 pls., 226 figs.

R. 100. Biblical antiquities: A description of the exhibit at the Cotton States International Exposition at Atlanta, 1895. By Cyrus Adler and I. M. Casanowicz.
pp. 943–1023, 46 pls.

R. 101. The lamp of the Eskimo. By Walter Hough.
pp. 1025–1057, 24 pls., 4 figs.

1897.

R. 102. Recent foraminifera: A descriptive catalogue of specimens dredged by the U. S. Fish Commission steamer *Albatross*. By James M. Flint, U. S. N.
pp. 249–349, 80 pls.

R. 103. Pipes and smoking customs of the American aborigines, based on material in the U. S. National Museum. By Joseph D. McGuire.
pp. 351–645, 5 pls., 239 figs.

R. 104. Catalogue of the series illustrating the properties of minerals. By Wirt Tassin.
pp. 647–688.

R. 105. Te Pito Te Henua, known as "Rapa Nui;" commonly called Easter Island, South Pacific Ocean. By George H. Cooke, U. S. N.
pp. 689–723.

R. 106. The man's knife among the North American Indians: A study in the collections of the U. S. National Museum. By Otis Tufton Mason.
pp. 725–745, 17 figs.

R. 107. Classification of the mineral collections in the U. S. National Museum. By Wirt Tassin.
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R. 108. Arrowpoints, spearheads, and knives of prehistoric times. By Thomas Wilson.
pp. 811–988, 65 pls., 201 figs.

1898.

R. 109. Future development of the National Museum. (Part of the Report of the Acting Assistant Secretary.)
pp. 13–16.

R. 110. The crocodilians, lizards, and snakes of North America. By Edward Drinker Cope.
pp. 153–1270, 36 pls., 347 figs.

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R. 111. Guide to the study of the collections in the section of applied geology: The non-metallic minerals. By George P. Merrill.
pp. 155–483, 30 pls., 13 figs.

R. 112. A primitive frame for weaving narrow fabrics. By Otis Tufton Mason.
pp. 485–510, 9 pls., 19 figs.

R. 113. An early West Virginia pottery. By Walter Hough.
pp. 511–521, 18 pls.

R. 114. Pointed bark canoes of the Kutenai and Amur. By Otis Tufton Mason. (With notes on the Kutenai canoe by Meriden S. Hill.)
pp. 523–537, 5 pls., 6 figs.

R. 115. Descriptive catalogue of a collection of objects of Jewish ceremonial deposited in the U. S. National Museum by Hadji Ephraim Benguiat. By Cyrus Adler and I. M. Casanowicz.
pp. 539–561, 36 pls.

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R. 116. Anthropological studies in California. By W. H. Holmes.
pp. 155–187, 50 pls.

R. 117. Aboriginal American harpoons: A study in ethnic distribution and invention. By Otis T. Mason.
pp. 189–304, frontispiece, 19 pls., 92 figs.

R. 118. A sketch of the history of the ceramic art in China, with a catalogue of the Hippisley collection of Chinese porcelains. By Alfred E. Hippisley.
pp. 305–416, 21 pls.

R. 119. Contributions to the history of musical scales. By Charles K. Wead.
pp. 417–462, 10 pls., 8 figs.

R. 120. A collection of Hopi ceremonial pigments. By Walter Hough.
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R. 121. Descriptive catalogue of the collections of gems in the U. S. National Museum. By Wirt Tassin.
pp. 473–670, 9 pls., 26 figs.

R. 122. Descriptive catalogue of the meteorite collection in the U. S. National Museum. By Wirt Tassin.
pp. 671–698, 4 pls.

III.—PROCEEDINGS OF THE U. S. NATIONAL MUSEUM.[1]

[VOLUMES I–XXIII.]

VOLUME I, CONTAINING PAPERS 1–61.

Department of the Interior: | U. S. National Museum. | —— 17 —— | Proceedings | of the | United States National Museum. | Vol. 1. | 1878. | —— | Published under the direction of the Smithsonian Institution. | —— | Washington: | Government Printing Office. | 1879.

8vo., pp. iv, 1–520, 8 pls., 7 figs.

P. 1. Descriptions of new forms of mollusks from Alaska contained in the collections of the National Museum. By William H. Dall.
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P. 2. Postpliocene fossils in the coast range of California. By William H. Dall.
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P. 5. The occurrence of *Belone latimanus* in Buzzard's Bay, Massachusetts. By G. Brown Goode.
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P. 6. The voices of crustaceans. By G. Brown Goode.
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P. 7. On a new humming bird (*Atthis elliotí*) from Guatemala. By Robert Ridgway.
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P. 8. Fossil mollusks from later tertiaries of California. By William H. Dall.
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P. 9. The manufacture of porpoise oil. By Caleb Cook.
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P. 14. Distribution of Californian tertiary fossils. By William H. Dall.
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P. 15. A revision of the American species of the genus *Brevoortia*, with a description of a new species from the Gulf of Mexico. By G. Brown Goode.
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P. 16. Description of *Caulolatilus microps*, a new species of fish from the coast of Florida. By G. Brown Goode and Tarleton H. Bean.
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P. 17. The occurrence of *Hippocampus antiquorum*, or an allied form, on Saint George's Banks. By G. Brown Goode.
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P. 18. Descriptions of new species of shells from California in the collections of the National Museum. By William H. Dall.
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P. 19. Catalogue of the birds of Dominica from collections made for the Smithsonian Institution by Frederick A. Ober, together with his notes and observations. By George N. Lawrence.
pp. 48–69.

P. 20. Notes on a collection of fishes from Clackamas River, Oregon. By David S. Jordan.
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P. 21. A review of the American species of the genus *Scops*, Savigny. By Robert Ridgway.
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P. 22. Notes on the ornithology of southern Texas, being a list of birds observed in the vicinity of Fort Brown, Texas, from February, 1876, to June, 1878. By James C. Merrill.
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P. 23. On a serranoid fish, *Epinephelus drummond-hayi*, from the Bermudas and Florida. By G. Brown Goode and Tarleton H. Bean.
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P. 24. Descriptions of two new species of fishes, *Lutjanus blackfordii* and *Lutjanus stearnsii*, from the coast of Florida. By G. Brown Goode and Tarleton H. Bean.
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P. 25. A note on the Gulf menhaden, *Brevoortia patronus* Goode. By Silas Stearns.
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P. 26. A note upon the black grouper, *Epinephelus nigritus* (Holbrook) Gill, of the southern coast. By G. Brown Goode and Tarleton H. Bean.
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P. 39. Description of two new species of birds from Costa Rica, and notes on other rare species from that country. By Robert Ridgway.
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P. 40. Description of two gadoid fishes, *Phycis chesteri* and *Halopor-phyrus viola*, from the deep-sea fauna of the northwestern Atlantic. By G. Brown Goode and Tarleton H. Bean.
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P. 55. Notes on the fishes of Beaufort Harbor, North Carolina. By David S. Jordan and Charles H. Gilbert.
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Department of the Interior: | U. S. National Museum. | —— 19 —— | Proceedings | of the | United States National Museum. | Vol. II. | 1879. | —— | Published under the direction of the Smithsonian Institution. | —— | Washington: | Government Printing Office. | 1880.

8vo., pp. iv, 1–499, 7 pls., 2 figs.

P. 62. Notes on the nests and eggs of the eight North American species of *Empidonaces*. By T. M. Brewer.
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P. 63. A list of European fishes in the collection of the United States National Museum. By Tarleton H. Bean.
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P. 64. Description of a species of *Lycodes* (*L. paxillus*), obtained by the United States Fish Commission. By G. Brown Goode and Tarleton H. Bean.
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P. 65. Description of a new species of *Liparis* (*L. ranula*), obtained by the United States Fish Commission off Halifax, Nova Scotia. By G. Brown Goode and Tarleton H. Bean.
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P. 66. Description of a new species of amber fish (*Seriola stearnsii*), obtained near Pensacola, Florida, by Mr. Silas Stearns. By G. Brown Goode and Tarleton H. Bean.
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P. 69. On the species of *Astroscopus* of the eastern United States. By Tarleton H. Bean.
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P. 72. Review of the Pleuronectidæ of San Francisco. By W. N. Lockington.
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P. 73. A preliminary catalogue of the fishes of the Saint John's River and the east coast of Florida, with descriptions of a new genus and three new species. By G. Brown Goode.
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P. 74. Catalogue of a collection of fishes sent from Pensacola, Florida, and vicinity, by Mr. Silas Stearns, with description of six new species. By G. Brown Goode and Tarleton H. Bean.
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P. 76. Notice of recent additions to the marine invertebrata, of the northeastern coast of America, with descriptions of new genera and species and critical remarks on others. (Part I. Annelida, Gephyræa, Nemertina, Nematoda, Polyzoa, Tunicata, Mollusca, Anthozoa, Echinodermata, Porifera.) By A. E. Verrill.
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P. 77. Description of a new genus and species of fish, *Lopholatilus chamæleonticeps*, from the south coast of New England. By G. Brown Goode and Tarleton H. Bean.
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P. 78. On the occurrence of *Lycodes vahlii* Reinhardt, on La Have and Grand Banks. By G. Brown Goode and Tarleton H. Bean.
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P. 82. List of marine invertebrata from the New England coast, distributed by the U. S. Commission of Fish and Fisheries.[1] By Richard Rathbun.
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P. 83. Occurrence of *Chelura terebrans*, a crustacean destructive to the timber of submarine structures, on the coast of the United States. By Sidney I. Smith.
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P. 86. Descriptions of new species of carboniferous invertebrate fossils. By C. A. White.
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[1] For lists of the specimens contained in Series II, III, IV, see Nos. 230, 231, 371; and in Series V, see Rep. U.S.N.M., 1895, pp. 292–298.

P. 87. A study of the trunk-fishes (Ostraciontidæ), with notes upon the American species of the family. By G. Brown Goode.
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P. 92. Note on *Criocardium* and *Ethmocardium*. By C. A. White.
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P. 93. Descriptions of new cretaceous invertebrate fossils from Kansas and Texas. By C. A. White.
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P. 94. Notes on a collection of fishes obtained in the stream of Guanajuato and in Chapala Lake, Mexico, by Prof. A. Dugès. By David S. Jordan.
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P. 95. Descriptions of two species of fishes collected by Prof. A. Dugès in central Mexico. By Tarleton H. Bean.
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P. 98. Catalogue of a collection of fishes obtained in the Gulf of Mexico by Dr. J. W. Velie, with descriptions of seven new species. By G. Brown Goode and Tarleton H. Bean.
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P. 99. Notice of a new species of the 'Willemœsia group of crustacea' (Recent Eryontidæ). By Sidney I. Smith.
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Department of the Interior: | U. S. National Museum. | —25— | Proceedings | of the | United States National Museum. | Vol. III. | 1880. | —— | Published under the direction of the Smithsonian Institution. | —— | Washington: | Government Printing Office. | 1881.

8vo., pp. v, 1–589, 2 pls., 11 figs.

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P. 125. Description of a new species of *Sebastichthys* (*Sebastichthys miniatus*), from Monterey Bay, California. By David S. Jordan and Charles H. Gilbert.
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[1] For list of fishes distributed in 1881 see No. 185. The list of a later distribution is printed in the Rep. U. S. Nat. Mus., 1895, pp. 278–280.

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P. 1229. Cambrian brachiopoda: *Obolella*, subgenus *Glyptias; Bicia; Obolus*, subgenus *Westonia;* with descriptions of new species. By Charles D. Walcott.
pp. 669–695.

P. 1230. A revision of certain species of plants of the genus *Antennaria*. By Elias Nelson.
pp. 697–713.

P. 1231. Description of a new species of snake from Clarion Island. By Leonhard Stejneger.
pp. 715–717.

P. 1232. On the relationships of the Lutianoid fish, *Aphareus furcatus*. By David S. Jordan and Edwin C. Starks.
pp. 719–723, 2 pls.

P. 1233. A review of the lancelets, hagfishes, and lampreys of Japan, with a description of two new species. By David S. Jordan and John O. Snyder.
pp. 725–734, 1 plate.

P. 1234. The proper names of *Bdellostoma* or *Heptatrema*. By Theodore Gill.
pp. 735–738.

P. 1235. List of fishes collected in 1883 and 1885 by Pierre Louis Jouy and preserved in the United States National Museum, with descriptions of six new species. By David S. Jordan and John O. Snyder.
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pp. 771–778, 7 figs.

P. 1237. Synopsis of the Lucinacea and of the American species. By William H. Dall.
pp. 779–833, 4 pls.

P. 1238. On a slug of the genus *Veronicella* from Tahiti. By T. D. A. Cockerell.
pp. 835–836.

P. 1239. A review of the apodal fishes or eels of Japan, with descriptions of nineteen new species. By David S. Jordan and John O. Snyder.
pp. 837–890, 20 figs.

P. 1240. A review of the cardinal fishes of Japan. By David S. Jordan and John O. Snyder.
pp. 891–913, 2 pls., 10 figs.

IV. BULLETINS OF THE U. S. NATIONAL MUSEUM.

(NOS. 1-50.)

B. 1. Check-list of North American batrachia and reptilia; with a systematic list of the higher groups, and an essay on geographical distribution. Based on the specimens contained in the U. S. National Museum. By Edward D. Cope.
8vo., 1875, pp. 1-104.

B. 2. Contributions to the natural history of Kerguelen Island, made in connection with the American [United States] Transit-of-Venus expedition, 1874-75. By J. H. Kidder, M. D., passed assistant surgeon, U. S. Navy. I. Ornithology. Edited by Dr. Elliott Coues, U. S. A.
8vo., 1875, pp. ix, 1-51.

B. 3. Contributions to the natural history of Kerguelen Island, made in connection with the United States Transit-of-Venus expedition, 1874-75. By J. H. Kidder, M. D., passed assistant surgeon, U. S. Navy. II.
8vo., 1876, pp. 1-122.

B. 4. Birds of southwestern Mexico. Collected by Francis E. Sumichrast for the United States National Museum. Prepared by George N. Lawrence.
8vo., 1875, pp. 1-56.

B. 5. Catalogue of the fishes of the Bermudas. Based chiefly upon the collections of the United States National Museum. By G. Brown Goode, M. A., assistant curator, U. S. National Museum.
8vo., 1876, pp. 1-82.

B. 6. International Exhibition, 1876. Board on behalf of United States executive department. Classification of the collection to illustrate the animal resources of the United States. A list of substances derived from the animal kingdom, with synopsis of the useful and injurious animals and a classification of the methods of capture and utilization. By G. Brown Goode, M. A., assistant curator, U. S. National Museum.
8vo., 1876, pp, xiii, 1-126.

B. 7. Contributions to the natural history of the Hawaiian and Fanning islands and Lower California, made in connection with the United States North Pacific surveying expedition, 1873–1875. By Thos. H. Streets, M. D., passed assistant surgeon, U. S. Navy.
8vo., 1877, pp. 1–172.

B. 8. Index to the names which have been applied to the subdivisions of the class Brachiopoda excluding the rudistes previous to the year 1877. By W. H. Dall, U. S. Coast Survey.
8vo., 1877, pp. 1–88.

B. 9. Contributions to North American ichthyology. Based primarily on the collections of the United States National Museum. I. Review of Rafinesque's Memoirs on North American Fishes. By David S. Jordan.
8vo., 1877, pp. 1–53.

B. 10. Contributions to North American ichthyology. Based primarily on the collections of the United States National Museum. II. A.—Notes on Cottidæ, Etheostomatidæ, Percidæ, Centrarchidæ, Aphododeridæ, Dorysomatidæ, and Cyprinidæ, with revisions of the genera and descriptions of new or little known species. B.—Synopsis of the Siluridæ of the fresh waters of North America. By David S. Jordan.
8vo., 1877, pp. 1–120, 45 pls.

B. 11. Bibliography of the fishes of the Pacific coast of the United States to the end of 1879. By Theodore Gill.
8vo., 1882, pp. 1–73.

B. 12. Contributions to North American ichthyology. Based primarily on the collections of the United States National Museum. III. A.—On the distribution of the fishes of the Alleghany region of South Carolina, Georgia, and Tennessee, with descriptions of new or little known species. By David S. Jordan and Alembert W. Brayton. B.—A synopsis of the family Catostomidæ. By David S. Jordan.
8vo., 1878, pp. 1–237.

B. 13. The flora of St. Croix and the Virgin islands. By Baron H. F. A. Eggers.
8vo., 1879, pp. 1–133.

B. 14. International Exhibition, 1876. Catalogue of the collection to illustrate the animal resources and the fisheries of the United States, exhibited at Philadelphia in 1876 by the Smithsonian Institution and the United States Fish Commission, and forming a part of the United States National Museum. Prepared under the direction of G. Brown Goode.
8vo., 1879, pp. xvi, 1–351.

B. 15. Contributions to the natural history of Arctic America, made in connection with the Howgate Polar expedition, 1877–78. By Ludwig Kumlien, naturalist of the expedition.
8vo., 1879, pp. 1–179.

B. 16. Synopsis of the fishes of North America. By David S. Jordan and Charles H. Gilbert.
8vo., 1882, pp. lvi, 1–1018.

B. 17. On the zoological position of Texas. By Edward D. Cope.
8vo., 1880, pp. 1–51.

B. 18. International Fishery Exhibition, Berlin, 1880. Exhibit of the fisheries and fish culture of the United States of America, at the Internationale Fischerei-Ausstellung, held at Berlin, April 20, 1880, and forming a part of the collections of the National Museum, made by the United States Fish Commission. Prepared under the direction of G. Brown Goode, deputy commissioner.
8vo., 1880, pp. xv, 1–263.

B. 19. Nomenclator Zoologicus. An alphabetical list of all generic names that have been employed by naturalists for recent and fossil animals from the earliest times to the close of the year 1879. In two parts: I. Supplemental list. II. Universal index. By Samuel H. Scudder.
8vo., 1882, pp. xxi, 1–376, 1–340.

B. 20. Bibliographies of American naturalists. I. The published writings of Spencer Fullerton Baird, 1843–1882. By G. Brown Goode, assistant director of the National Museum.
8vo., 1883, pp. xvi, 1–377, frontispiece.

B. 21. Nomenclature of North American birds chiefly contained in the United States National Museum. By Robert Ridgway.
8vo., 1881, pp. 1–94.

B. 22. Guide to the flora of Washington and vicinity. By Lester F. Ward, A. M.
8vo., 1881, pp. 1–264, 1 map.

B. 23. Bibliographies of American naturalists. II. The published writings of Isaac Lea, LL. D. By Newton Pratt Scudder.
8vo., 1885, pp. lix, 1–278, frontispiece.

B. 24. Check list of North American reptilia and batrachia, with catalogue of specimens in U. S. National Museum. By H. C. Yarrow, M. D., honorary curator, department of reptiles.
8vo., 1882, pp. v, 1–249.

B. 25. Contributions to the natural history of the Bermudas. Edited by J. Matthew Jones and George Brown Goode.
8vo., 1884, pp. xxiii, 1–353, 12 pls.

Part I.—Geology. By Prof. William North Rice (pp. 1–32, 5 pls.).
Part II.—Botany. By Gen. Sir John Henry Lefroy (pp. 33–141).
Part III.—Mammals. By J. Matthew Jones (pp. 143–161).
Part IV.—Birds. By Capt. Savile G. Reid (pp. 163–279).
Part V.—Notes on birds. By Dr. C. Hart Merriam (pp. 281–284).
Part VI.—Reptiles. By Samuel Garman (pp. 285–303).
Part VII.—Annelids. By Prof. H. E. Webster (pp. 305–327, 6 pls.).

B. 26. Avifauna Columbiana: being a list of birds ascertained to inhabit the District of Columbia, with the times of arrival and departure of such as are non-residents, and brief notices of habits, etc. The second edition, revised to date, and entirely rewritten. By Elliott Coues, M. D., Ph. D., professor of anatomy in the National Medical College, etc., and D. Webster Prentiss, A. M., M. D., professor of materia medica and therapeutics in the National Medical College, etc.

8vo., 1883, pp. 1–133, 2 pls., 100 figs.

B. 27. Great International Fisheries Exhibition, London, 1883. Descriptive catalogues of the collections sent from the United States to the International Fisheries Exhibition, London, 1883, constituting a report upon the American section. Prepared under the direction of G. Brown Goode, U. S. commissioner, and a staff of associates.

8vo., 1884, pp. liv, 1–1279.

Great international fisheries exhibition. London, 1883. United States of America. A. Preliminary catalogue and synopsis of the collections exhibited by the United States Fish Commission and by special exhibitors. With a concordance to the official classification of the exhibition. 8vo., 1883, pp. 1–105.

Great international fisheries exhibition. London, 1883. United States of America. B. Collection of economic crustaceans, worms, echinoderms, and sponges. By Richard Rathbun, curator of the department of marine invertebrates in the United States National Museum. 8vo., 1883, pp. 107–137.

Great international fisheries exhibition. London, 1883. United States of America. C. Catalogue of the aquatic and fish-eating birds exhibited by the United States National Museum. By Robert Ridgway, curator, department of birds, U. S. National Museum. 8vo., 1883, pp. 139–184.

Great international fisheries exhibition. London, 1883. United States of America. D. Catalogue of the economic mollusca and the apparatus and appliances used in their capture and preparation for market, exhibited by the United States National Museum. By Lieut. Francis Winslow, U. S. Navy. 8vo., 1883, pp. 185–270.

Great international fisheries exhibition. London, 1883. United States of America. E. The whale fishery and its appliances. By James Temple Brown, assistant in the department of art and industry, U. S. National Museum. 8vo., 1883, pp. 271–386.

Great international fisheries exhibition. London, 1883. United States of America. F. Catalogue of the collections of fishes exhibited by the United States National Museum. By Tarleton H. Bean, curator of the department of fishes in the United States National Museum. 8vo., 1883, pp. 387–510.

Great international fisheries exhibition. London, 1883. United States of America. G. Descriptive catalogue of the collection illustrating the scientific investigation of the sea and fresh waters. By Richard Rathbun, curator of the department of marine invertebrates in the United States National Museum. 8vo., 1883, pp. 511–621.

Great international fisheries exhibition. London, 1883. United States of America. H. Catalogue of the aquatic mammals exhibited by the United States National Museum. By Frederick W. True, curator of the department of mammals, United States National Museum. 8vo., 1884, pp. 623–644.

Great international fisheries exhibition. London, 1883. United States of America. I. Catalogue of the collection illustrating the fishing vessels and boats, and their equipment; the economic condition of fishermen; anglers' outfits, etc. By Capt. J. W. Collins, assistant, U. S. Fish Commission. 8vo., 1884, pp. 645–823.

Great international fisheries exhibition. London, 1883. United States of America. J. Catalogue of the apparatus for the capture of fish exhibited by the United States National Museum. By R. Edward Earll, curator of the fisheries collections, U. S. National Museum, and assistant U. S. Fish Commission. 8vo., 1884, pp. 825–1030.

Great international fisheries exhibition. London, 1883. United States of America. K. Catalogue of fishery products, and of the apparatus used in their preparation. By A. Howard Clark, assistant in the department of art and industry, United States National Museum. 8vo., 1884, pp. 1031–1154.

Great international fisheries exhibition. London, 1883. United States of America. L. Catalogue of the fish-cultural exhibit of the United States Fish Commission. By R. Edward Earll, curator of the fisheries collections, U. S. National Museum, and assistant, U. S. Fish Commission. 8vo., 1884, pp. 1155–1249.

B. 28. A manual of American land shells. By W. G. Binney.
8vo., 1885, pp. 1–528, 516 figs.

B. 29. Results of ornithological explorations in the Commander Islands and in Kamtschatka. By Leonhard Stejneger.
8vo., 1885, pp. 1–382, 8 pls., 7 figs., 1 map.

B. 30. Bibliographies of American naturalists. III. Bibliography of publications relating to the collection of fossil invertebrates in the United States National Museum, including complete lists of the writings of Fielding B. Meek, Charles A. White,[1] and Charles D. Walcott. By John Belknap Marcou.
8vo., 1885, pp. 1–333.

B. 31. Bulletin of the United States National Museum. No. 31. Synopsis of the North American Syrphidæ. By Samuel W. Williston, M. D., Ph. D.
8vo., 1886, pp. xxx, 1–335, 12 pls.

B. 32. Catalogue of batrachians and reptiles of Central America and Mexico. By E. D. Cope.
8vo., 1887, pp. 1–98.

B. 33. Catalogue of minerals and synonyms. By T. Egleston, Ph. D.
8vo., 1887, pp. 1–198.

B. 34. The batrachia of North America. By E. D. Cope.
8vo., 1889, pp. 1–525, 86 pls., 119 figs.

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[1] For supplementary list, see P. 1135.

B. 35. Bibliographical catalogue of the described transformations of North American lepidoptera. By Henry Edwards.
8vo., 1889, pp. 1–147.

B. 36. Contributions to the natural history of the cetaceans. A review of the family Delphinidæ. By Frederick W. True, curator of the department of mammals, United States National Museum.
8vo., 1889, pp. 1–191, 47 pls.

B. 37. A preliminary catalogue of the shell-bearing marine mollusks and brachiopods of the south-eastern coast of the United States, with illustrations of many of the species. By William Healey Dall, A. M., honorary curator, department of mollusks, U. S. National Museum.
8vo., 1889, pp. 1–221, 74 pls.

B. 38. Contribution toward a monograph of the insects of the lepidopterous family Noctuidæ of temperate North America. Revision of the species of the genus *Agrotis*. By John B. Smith, professor of entomology, Rutgers College, New Jersey.
8vo., 1890, pp. iv, 1–237, 5 pls.

B. 39. [Directions for collecting and preserving specimens.]

Part A.—Directions for collecting birds. By Robert Ridgway. 8vo., 1891, pp. 1–27, 9 figs.

Part B.—Directions for collecting recent and fossil plants. By F. H. Knowlton (with notes on collecting and preserving fresh-water algæ, by Frank S. Collins). 8vo., 1891, pp. 1–46, 10 figs.

Part C.—Notes on the preparation of rough skeletons. By Frederic A. Lucas. 8vo., 1891, pp. 1–11, 12 figs.

Part D.—Directions for collecting, preparing, and preserving birds' eggs and nests. By Charles Bendire. 8vo., 1891, pp. 1–10, 7 figs.

Part E.—Directions for collecting reptiles and batrachians (with supplementary note giving directions for preserving small herpetological specimens in formalin). By Leonhard Stejneger. 8vo., 1891, pp. 1–13, 5 figs.

Part F.—Directions for collecting and preserving insects. By C. V. Riley, M. A., Ph. D. 8vo., 1892, pp. 1–147, 1 plate, 139 figs.

Part G.—Instructions for collecting mollusks, and other useful hints for the conchologist. By William H. Dall. 8vo., 1892, pp. 1–56, 8 figs.

Part H.—Directions for collecting minerals. By Wirt Tassin. 8vo., 1895, pp. 1–6, 8 figs.

Part I.—Directions for collecting rocks and for the preparation of thin sections. By George P. Merrill. 8vo., 1895, pp. 1–15, 17 figs.

Part J.—Directions for collecting specimens and information illustrating the aboriginal uses of plants. By Frederick V. Coville. 8vo., 1895, pp. 1–8.

Part K.—Directions for collecting and preparing fossils. By Charles Schuchert. 8vo., 1895, pp. 1–31, 13 figs.

Part L.—Directions for collecting and preserving scale insects (Coccidæ). By T. D. A. Cockerell. 8vo., 1897, pp. 1–9.

Part M.—The methods employed at the Naples Zoological Station for the preservation of marine animals. By Dr. Salvatore Lo Bianco. Translated from the original Italian by Edmund Otis Hovey. 8vo., 1899, pp. 1–42, frontispiece.

Part N.—Directions for preparing study specimens of small mammals. By Gerrit S. Miller, jr. 8vo., 1899, pp. 1–10, 1 fig.

Part N.—Second edition, revised, with abstracts in German, French, and Spanish. 8vo., 1901, pp. 1–25, 3 figs.

Part O.—Directions for collecting and rearing dragonflies, stoneflies, and mayflies. By James G. Needham, Ph. D. 8vo., 1899, pp. 1–9, 4 figs.

B. 40. Bibliographies of American naturalists. IV. The published writings of George Newbold Lawrence, 1844–1891. By L. S. Foster.

8vo., 1892, pp. xi, 1–124, frontispiece.

B. 41. Bibliographies of American naturalists. V. The published writings of Dr. Charles Girard. By George Brown Goode.

8vo., 1891, pp. vi, 1–141, frontispiece.

B. 42. A preliminary descriptive catalogue of the systematic collections in economic geology and metallurgy in the United States National Museum. By Frederic P. Dewey.

8vo., 1891, pp. xviii, 1–256, 34 pls., 10 figs.

B. 43. A monograph of the bats of North America. By Harrison Allen, M. D.

8vo., 1893, pp. ix, 1–198, 38 pls., 1 diagram.

B. 44. A catalogue, bibliographical and synonymical, of the species of moths of the lepidopterous superfamily Noctuidæ, found in boreal America, with critical notes. By John B. Smith, Sc. D.

8vo., 1893, pp. 1–424.

B. 45. A monograph of the North American Proctotrypidæ. By William H. Ashmead.

8vo., 1893, pp. 1–472, 18 pls., 2 figs.

B. 46. The myriapoda of North America. By Charles Harvey Bollman. Edited by L. M. Underwood.

8vo., 1893, pp. 1–210.

B. 47. The fishes of North and Middle America: A descriptive catalogue of the species of fish-like vertebrates found in the waters of North America, north of the Isthmus of Panama. By David Starr Jordan, Ph. D., president of the Leland Stanford Junior University, and Barton Warren Evermann, Ph. D., ichthyologist of the United States Fish Commission.

8vo., 4 vols., pp. 1–3313, 392 pls.

Part I.—1896, pp. lx, 1–1240.

Part II.—1898, pp. xxx, 1241–2183.

Part III.—1898, pp. xxiv, 2183*a*–3136.

Part IV.—1900, pp. ci, 3137–3313; 392 pls.

B. 48. Contributions toward a monograph of the insects of the lepidopterous family Noctuidæ of boreal North America. A revision of the deltoid moths. By John B. Smith, Sc. D., professor of entomology in Rutgers College.

8vo., 1895, pp. i–vi, 1–129, 14 pls.

B. 49. The published writings of Philip Lutley Sclater, 1844–1896. Prepared under the direction of G. Brown Goode.
8vo., 1896, pp. xix, 1–135, frontispiece.

B. 50. The birds of North and Middle America: A descriptive catalogue of the higher groups, genera, species, and subspecies of birds known to occur in North America, from the Arctic lands to the Isthmus of Panama, the West Indies and other islands of the Caribbean Sea, and the Galapagos Archipelago. By Robert Ridgway, curator, division of birds. Part I. Family Fringillidæ—The Finches.
8vo., 1901, pp. i–xxx, 1–715, 20 pls. (Additional parts in preparation.)

V. SPECIAL BULLETINS OF THE U. S. NATIONAL MUSEUM.

(NOS. I–IV.)

I. Smithsonian Institution. | United States National Museum. | Special Bulletin No. 1. | —— | Life histories | of | North American birds | with special reference to | their breeding habits and eggs, | with | twelve lithographic plates. | By | Charles Bendire, captain, U. S. Army (retired), | Honorary Curator of the Department of Oölogy, U. S. National Museum, | member of the American Ornithologists' Union. | —— | Washington: | Government Printing Office | 1892.

4to., pp. viii, 1–446, 12 pls.

II. Smithsonian Institution. | United States National Museum. | —— | Special Bulletin. | —— | Oceanic Ichthyology, | a treatise on the | deep-sea and pelagic fishes of the world, | based chiefly upon | the collections made by the steamers Blake, Albatross, | and Fish Hawk in the Northwestern Atlantic, | with | an atlas containing 417 figures, | By | George Brown Goode, Ph. D., LL. D., | Assistant Secretary, Smithsonian Institution, in charge of U. S. National Museum, | and | Tarleton H. Bean, M. D., M. S., | Director of the New York Aquarium. | —— | Washington: | Government Printing Office. | 1895.

4to., Vol. I, pp. xxxv, 1–553, 24 figs., 1 diagram; Vol. II, pp. xxiii, 1–26, 123 pls.

III. Smithsonian Institution. | United States National Museum. | Special Bulletin. | —— | Life histories | of | North American birds, | from the parrots to the grackles, | with special reference to | their breeding habits and eggs, | By | Charles Bendire, captain and brevet major, U. S. A. (retired), | Honorary Curator of the Department of Oölogy, U. S. National Museum | member of the American Ornithologists' Union. | with | seven lithographic plates. | —— | Washington: | Government Printing Office. | 1895.

4to., pp. ix, 1–518, 7 pls.

IV. Smithsonian Institution. | United States National Museum. | —— | Special Bulletin. | —— | American Hydroids. | —— | Part I. | The Plumularidæ, | with thirty-four plates. | By | Charles Cleveland Nutting, | Professor of Zoology, University of Iowa. | —— | Washington: | Government Printing Office. | 1900.

4to., pp. ii, 1–285, 34 pls., 124 figs.

VI. CIRCULARS OF THE U. S. NATIONAL MUSEUM.[1]

(NOS. 1–50.)

C. 1. Organization of the U. S. National Museum. By G. Brown Goode.
8vo., 1881, pp. 1–58.

C. 2. Circular addressed to friends of the Museum. By Spencer F. Baird.
8vo., 1881, pp. 1–2.

C. 3. Circular in reference to petroleum collections. By Spencer F. Baird.
8vo., 1881, pp. 1–2.

C. 4. Circular concerning the department of insects. By Spencer F. Baird.
8vo., 1881, 1 page.

C. 5. Establishment and officers.
8vo., 1881, pp. 1–2.

C. 6. Classification and arrangement of the materia medica collection. By James M. Flint, U. S. N.
8vo., 1881, pp. 1–2.

C. 7. A classification of the forms in which drugs and medicines appear and are administered. By James M. Flint, U. S. N.
8vo., 1881, pp. 1–7.

C. 8. Memoranda for collectors of drugs for the materia medica section of the National Museum. By James M. Flint, U. S. N.
8vo., 1881, pp. 1–2.

C. 9. Circular in reference to the building-stone collection. By Spencer F. Baird.
8vo., 1881, pp. 1–6.

C. 10. Two letters on the work of the National Museum. By Barnet Phillips.
8vo., 1881, pp. 1–10.

C. 11. A provisional classification of the food collections. By G. Brown Goode.
8vo., 1881, pp. 1–22.

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[1] Circulars 1–18 reprinted in Proceedings U. S. National Museum, Volume IV.
Circulars 19–23 reprinted in Proceedings U. S. National Museum, Volume VI.
Circulars 24–31 reprinted in Proceedings U. S. National Museum, Volume VII.
Circulars 32–33 reprinted in Proceedings U. S. National Museum, Volume VIII.
Circular 35 reprinted in Report U. S. National Museum, 1886, p. 25.
Circular 37 reprinted in Proceedings U. S. National Museum, Volume X.

C. 12. Classification of the collection to illustrate the art of taxidermy. By William T. Hornaday.
8vo., 1881, pp. 1–2.

C. 13. Outline of a scheme of museum classification. By G. Brown Goode.
8vo., 1881, pp. 1–4.

C. 14. Circular requesting material for the library. By Spencer F. Baird.
8vo., 1881, pp. 1–3.

C. 15. The organization and objects of the National Museum.
8vo., 1881, pp. 1–4.

C. 16. Plans for the installation of collections.
8vo., 1881, pp. 1–2.

C. 17. Contributions and their acknowledgment.
8vo., 1881, 1 page.

C. 18. List of publications of the United States National Museum.
8vo., 1881, pp. 1–12.

C. 19. Classification of the materia medica collection of the U. S. National Museum, and catalogue of specimens. By James M. Flint, U. S. N.
8vo., 1883, pp. 1–45.

C. 20. Request for specimens of drugs and information concerning them. By Spencer F. Baird.
8vo., 1883, 1 page.

C. 21. Circular relative to contributions of aboriginal antiquities to the U. S. National Museum. By Charles Rau.
8vo., 1883, 5 pp.

C. 22. Brief directions for removing and preserving the skins of mammals. By William T. Hornaday.
8vo., 1883, 7 pp., 4 figs.

C. 23. Instructions for taking paper molds of inscriptions in stone, wood, bronze, etc. Prepared by A. P. Niblack, U. S. N.
8vo., 1883, 5 pp.

C. 24. Plan of a collection to illustrate the textile industries of the United States, to be exhibited at the World's Industrial and Cotton Centennial Exposition of 1884–85, at New Orleans. By Romyn Hitchcock.
8vo., 1884, pp. 1–16.

C. 25. Preliminary plan for a collection of the building and ornamental stones and rocks of the United States, to be exhibited at the World's Industrial and Cotton Centennial Exposition of 1884–85, at New Orleans. By George P. Merrill.
8vo., 1884, pp. 1–2.

C. 26. Plan for a collection of gems and precious stones, to be exhibited at the Cincinnati Industrial Exposition and the World's Industrial and Cotton Centennial Exposition of 1884–85, at New Orleans. By F. W. Clarke.
8vo., 1884, pp. 1–2.

C. 27. Directions for collecting, preserving, and transporting tortricids and other small moths. By C. H. Fernald.
8vo., 1884, pp. 1–3.

C. 28. Directions for mound exploration. By Cyrus Thomas.
8vo., 1884, pp. 1–3.

C. 29. Provisional plan for a collection of mammals to be exhibited at the World's Industrial and Cotton Centennial Exposition of 1884–85, at New Orleans. By Frederick W. True.
8vo., 1884, pp. 1–27.

C. 30. A list of birds the eggs of which are wanted to complete the series in the National Museum, with instructions for collecting eggs. By Charles E. Bendire, U. S. A.
8vo., 1884, 4 pp.

C. 31. Plan to illustrate the mineral resources of the United States and their utilization, at the World's Industrial and Cotton Centennial Exposition of 1884–85, at New Orleans. By Fred. P. Dewey.
8vo., 1884, 8 pp.

C. 32. Classification of the materia medica collection of the U. S. National Museum, and catalogue of specimens. By James M. Flint, U. S. N. (Revised and extended by Dr. Henry G. Beyer, U. S. N.)
8vo., 1885, pp. 1–39.

C. 33. Notes on the preparation of rough skeletons. By Frederic A. Lucas.
8vo , 1885, pp. 1–8, 12 figs.

C. 34. Circular for the guidance of persons desiring to make exchanges of birds or birds' eggs with the National Museum.
8vo., 1886, 1 page.

C. 35. Concerning the lending of type specimens. By Spencer F. Baird.
8vo., 1886, 1 page.

C. 36. Circular concerning the department of antiquities. By S. P. Langley.
8vo., 1887, 6 pp., 17 figs.

C. 37. Catalogue of the contributions of the section of graphic arts to the Ohio Valley Centennial Exposition, Cincinnati, Ohio, 1888. By S. R. Koehler.
8vo., 1887, 31 pp.

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C. 48. Circular in regard to bones and teeth of the mastodon and mammoth. By Frederic A. Lucas.
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C. 49. [Circular relating to the North American Violaceæ.] By Frederick W. True.
8vo., 1899, 1 page.

C. 50. [Circular transmitting questions relating to birds and birds' eggs.] By Richard Rathbun.
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VII.—INDEX TO TITLES IN PRECEDING LIST.

[In the references the following abbreviations are used: R.=paper printed in the Reports; P.=paper printed in the Proceedings; B.=Bulletin; Sp. B.=Special Bulletin; C.=Circular. The references under certain special headings, such as U. S. Fish Commission, etc., are necessarily incomplete, as this is only an index of *titles*. References to persons whose names occur in the titles, but who are not themselves the authors of the papers, are placed in brackets.]

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[1] For a complete list of papers relating to the work of the "Albatross" see "Dredging and other records of the 'Albatross,' with bibliography relative to the work of the vessel," compiled by C. H. Townsend and published in the Report of the U. S. Fish Commission for 1900.

[2] In addition to the above-numbered series the following papers, printed in the Proceedings subsequent to Volume XVIII, are based wholly or in part on "Albatross" collections: Nos. 1114, 1115, 1161, 1162, 1213, 1236, 1239, 1241, 1244, 1259, 1261.

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